

IN THE CLAIMS

1. - 39. (Cancelled)

40. (New) A method of manufacturing an electron-emitting device, comprising the step of:

providing a substrate on which a first electrode having a plurality of carbon fibers and a second electrode are disposed, wherein each carbon fiber has a plurality of graphens which are stacked so as not to be parallel to an axis direction of each carbon fiber.

41. (New) The method according to claim 40, wherein the providing step includes processes of:

arranging a plurality of catalyst particles so as to be connected to the first electrode; and

growing a plurality of carbon fibers by a reaction between the plurality of catalyst particles and a gas containing carbon.

42. (New) The method according to claim 41, wherein the catalyst particle contain a material selected from the group consisting of Pd, Ni, Fe and Co.

43. (New) The method according to claim 40, wherein at least one or more of the carbon fibers are formed to have ends distant from a surface of the second electrode.

44. (New) A method of manufacturing an electron source having a plurality of electron-emitting devices, each manufactured according to the method of claim 40.

45. (New) A method of manufacturing an image forming apparatus comprising a substrate having a third electrode and a phosphor, and an electron source disposed in opposition to and spaced from the substrate, wherein the electron source is manufactured according to the method of claim 44.